

Baker's yeast (*S. cerevisiae*) Carboxypeptidase Y, recombinant

Cat. No. NATE-0103

Lot. No. (See product label)

Introduction

Description Carboxypeptidase Y (CPY) catalyzes the following reaction: Peptidyl-L-amino acid + H₂O -----> Peptide + L-amino acid. It is prepared according to the method of Moore & Stein (J. Biol Chem, 211, 907, 1954). It resembles Carboxypeptidase A in its substrate specificity, but it hydrolyzes C-terminal glycine and L-leucine more rapidly and L-phenylalanine more slowly.

Synonyms carboxypeptidase Y; serine carboxypeptidase I; cathepsin A; lysosomal protective protein; deamidase; lysosomal carboxypeptidase A; phaseolin; EC 3.4.16.5; 9046-67-7; Peptidyl-L-amino acid Hydrolase; Serine Carboxypeptidase; Carboxypeptidase C; Peptidyl-L-amino-acid (-L-proline) hydrolase; EC 3.4.12.8

Product Information

Species *S. cerevisiae*

Appearance Clear, colorless to lightly colored

Form 500 mM sodium chloride, 500 mM imidazole, 20 mM sodium phosphate monobasic, 20 mM sodium phosphate dibasic, pH 7.5

EC Number EC 3.4.16.1

Purity > 90 %

Activity > 10u/mg

Concentration about 0.1 mg/mL

Unit Definition One unit of enzyme activity is defined as that amount of enzyme that catalyzes the hydrolysis of 1 micromole of substrate per minute.

Storage and Shipping Information

Storage Long term below -20°C, short term 2-8°C. Avoid multiple freeze-thaws.